



#2

OIPE

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/042,202

DATE: 01/27/2002

TIME: 15:24:11

Input Set : A:\1-11-02. HILL sequence listing.txt
 Output Set: N:\CRF3\01272002\J042202.raw

SEQUENCE LISTING

ENTERED

6 (1) GENERAL INFORMATION:

8 (i) APPLICANT: Adrian Vivian Sinton HILL, Michael AIDOO,
 9 Catherine Elizabeth Margaret ALLSOPP, Ajit LALVANI, Magdalena
 10 PLEBANSKI, Hilton Carter WHITTLE,

12 (ii) TITLE OF INVENTION: MALARIA PEPTIDES

14 (iii) NUMBER OF SEQUENCES: 52

C--> 36 (iv) CORRESPONDENCE ADDRESS:

37 (A) ADDRESSEE: WENDEROTH, LIND & PONACK, L.L.P.
 38 (B) STREET: 2033 K Street, N.W., Suite 800,
 39 (C) CITY: Washington
 40 (D) STATE: D.C.,
 41 (E) COUNTRY: U.S.A.
 42 (F) ZIP: 20006-1021

C--> 16 (v) COMPUTER READABLE FORM:

17 (A) MEDIUM TYPE: Floppy disk
 18 (B) COMPUTER: IBM PC compatible
 19 (C) OPERATING SYSTEM: MS-DOS
 20 (D) SOFTWARE: WordPad for Windows 95

C--> 0 (vi) CURRENT APPLICATION DATA:

C--> 0 (A) APPLICATION NUMBER: US/10/042,202
 C--> 0 (B) FILING DATE: 11-Jan-2002

C--> 32 (vii) PRIOR APPLICATION DATA:

24 (A) APPLICATION NUMBER: 08/714,175
 25 (B) FILING DATE: 28-JAN-1997
 29 (A) APPLICATION NUMBER: WO PCT/GB95/26982
 30 (B) FILING DATE: 30-MAR-1995
 33 (A) APPLICATION NUMBER: GB 9406492.0
 34 (B) FILING DATE: 31-MAR-1994

44 (viii) ATTORNEY/AGENT INFORMATION:

45 (A) NAME: Warren M Cheek, Jr.
 46 (B) REGISTRATION NUMBER: 33,367
 47 (C) REFERENCE/DOCKET NUMBER: 2002_0026

49 (ix) TELECOMMUNICATION INFORMATION:

50 (A) TELEPHONE: (202)-721-8200
 51 (B) TELEFAX: (202)-721-8250
 52 (C) TELEX:

54 (2) INFORMATION FOR SEQ ID NO: 1:

56 (i) SEQUENCE CHARACTERISTICS:

57 (A) LENGTH: 9 amino acids
 58 (B) TYPE: amino acid
 59 (C) STRANDEDNESS:
 60 (D) TOPOLOGY: linear

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/042,202

DATE: 01/27/2002
TIME: 15:24:11

Input Set : A:\1-11-02. HILL sequence listing.txt
Output Set: N:\CRF3\01272002\J042202.raw

62 (ii) MOLECULE TYPE: peptide
64 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:
66 His Leu Gly Asn Val Lys Tyr Leu Val
67 1 5
70 (2) INFORMATION FOR SEQ ID NO: 2:
72 (i) SEQUENCE CHARACTERISTICS:
73 (A) LENGTH: 9 amino acids
74 (B) TYPE: amino acid
75 (C) STRANDEDNESS:
76 (D) TOPOLOGY: linear
78 (ii) MOLECULE TYPE: peptide
80 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:
82 Leu Leu Met Asp Cys Ser Gly Ser Ile
83 1 5
87 (2) INFORMATION FOR SEQ ID NO: 3:
89 (i) SEQUENCE CHARACTERISTICS:
90 (A) LENGTH: 9 amino acids
91 (B) TYPE: amino acid
92 (C) STRANDEDNESS:
93 (D) TOPOLOGY: linear
95 (ii) MOLECULE TYPE: peptide
97 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:
99 Gly Ile Ala Gly Gly Leu Ala Leu Leu
100 1 5
104 (2) INFORMATION FOR SEQ ID NO: 4:
106 (i) SEQUENCE CHARACTERISTICS:
107 (A) LENGTH: 9 amino acids
108 (B) TYPE: amino acid
109 (C) STRANDEDNESS:
110 (D) TOPOLOGY: linear
112 (ii) MOLECULE TYPE: peptide
114 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:
116 Ile Leu Tyr Ile Ser Phe Tyr Phe Ile
117 1 5
121 (2) INFORMATION FOR SEQ ID NO: 5:
123 (i) SEQUENCE CHARACTERISTICS:
124 (A) LENGTH: 9 amino acids
125 (B) TYPE: amino acid
126 (C) STRANDEDNESS:
127 (D) TOPOLOGY: linear
129 (ii) MOLECULE TYPE: peptide
131 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:
133 Tyr Ile Ser Phe Tyr Phe Ile Leu Val
134 1 5
138 (2) INFORMATION FOR SEQ ID NO: 6:
140 (i) SEQUENCE CHARACTERISTICS:
141 (A) LENGTH: 9 amino acids
142 (B) TYPE: amino acid
143 (C) STRANDEDNESS:

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/042,202

DATE: 01/27/2002
TIME: 15:24:11

Input Set : A:\1-11-02. HILL sequence listing.txt
Output Set: N:\CRF3\01272002\J042202.raw

144 (D) TOPOLOGY: linear
146 (ii) MOLECULE TYPE: peptide
148 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6:
150 Gly Ile Tyr Lys Glu Leu Glu Asp Leu
151 1 5
155 (2) INFORMATION FOR SEQ ID NO: 7:
157 (i) SEQUENCE CHARACTERISTICS:
158 (A) LENGTH: 9 amino acids
159 (B) TYPE: amino acid
160 (C) STRANDEDNESS:
161 (D) TOPOLOGY: linear
163 (ii) MOLECULE TYPE: peptide
165 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7:
167 His Ile Phe Asp Gly Asp Asn Glu Ile
168 1 5
172 (2) INFORMATION FOR SEQ ID NO: 8:
174 (i) SEQUENCE CHARACTERISTICS:
175 (A) LENGTH: 9 amino acids
176 (B) TYPE: amino acid
177 (C) STRANDEDNESS:
178 (D) TOPOLOGY: linear
180 (ii) MOLECULE TYPE: peptide
182 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 8:
184 Tyr Leu Lys Thr Ile Gln Asn Ser Leu
185 1 5
189 (2) INFORMATION FOR SEQ ID NO: 9:
191 (i) SEQUENCE CHARACTERISTICS:
192 (A) LENGTH: 9 amino acids
193 (B) TYPE: amino acid
194 (C) STRANDEDNESS:
195 (D) TOPOLOGY: linear
197 (ii) MOLECULE TYPE: peptide
199 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 9:
201 Tyr Leu Gln Lys Ile Gln Asn Ser Leu
202 1 5
206 (2) INFORMATION FOR SEQ ID NO: 10:
208 (i) SEQUENCE CHARACTERISTICS:
209 (A) LENGTH: 9 amino acids
210 (B) TYPE: amino acid
211 (C) STRANDEDNESS:
212 (D) TOPOLOGY: linear
214 (ii) MOLECULE TYPE: peptide
216 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 10:
218 Tyr Leu Gln Lys Ile Lys Asn Ser Leu
219 1 5
223 (2) INFORMATION FOR SEQ ID NO: 11:
225 (i) SEQUENCE CHARACTERISTICS:
226 (A) LENGTH: 9 amino acids
227 (B) TYPE: amino acid

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/042,202

DATE: 01/27/2002
TIME: 15:24:12

Input Set : A:\1-11-02. HILL sequence listing.txt
Output Set: N:\CRF3\01272002\J042202.raw

228 (C) STRANDEDNESS:
229 (D) TOPOLOGY: linear
231 (ii) MOLECULE TYPE: peptide
233 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 11:
235 Tyr Leu Asn Lys Ile Gln Asn Ser Leu
236 1 5
240 (2) INFORMATION FOR SEQ ID NO: 12:
242 (i) SEQUENCE CHARACTERISTICS:
243 (A) LENGTH: 9 amino acids
244 (B) TYPE: amino acid
245 (C) STRANDEDNESS:
246 (D) TOPOLOGY: linear
248 (ii) MOLECULE TYPE: peptide
250 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 12:
252 Leu Arg Lys Pro Lys His Lys Lys Leu
253 1 5
257 (2) INFORMATION FOR SEQ ID NO: 13:
259 (i) SEQUENCE CHARACTERISTICS:
260 (A) LENGTH: 9 amino acids
261 (B) TYPE: amino acid
262 (C) STRANDEDNESS:
263 (D) TOPOLOGY: linear
265 (ii) MOLECULE TYPE: peptide
267 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 13:
269 Leu Lys Lys Ile Lys Asn Ser Ile Ser
270 1 5
274 (2) INFORMATION FOR SEQ ID NO: 14:
276 (i) SEQUENCE CHARACTERISTICS:
277 (A) LENGTH: 9 amino acids
278 (B) TYPE: amino acid
279 (C) STRANDEDNESS:
280 (D) TOPOLOGY: linear
282 (ii) MOLECULE TYPE: peptide
284 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 14:
286 Gln Val Arg Ile Lys Pro Gly Ser Ala
287 1 5
291 (2) INFORMATION FOR SEQ ID NO: 15:
293 (i) SEQUENCE CHARACTERISTICS:
294 (A) LENGTH: 9 amino acids
295 (B) TYPE: amino acid
296 (C) STRANDEDNESS:
297 (D) TOPOLOGY: linear
299 (ii) MOLECULE TYPE: peptide
301 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 15:
303 Ala Asn Lys Pro Lys Asp Gly Leu Asp
304 1 5
308 (2) INFORMATION FOR SEQ ID NO: 16:
310 (i) SEQUENCE CHARACTERISTICS:
311 (A) LENGTH: 9 amino acids

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/042,202

DATE: 01/27/2002

TIME: 15:24:12

Input Set : A:\1-11-02. HILL sequence listing.txt

Output Set: N:\CRF3\01272002\J042202.raw

312 (B) TYPE: amino acid
313 (C) STRANDEDNESS:
314 (D) TOPOLOGY: linear
316 (ii) MOLECULE TYPE: peptide
318 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 16:
320 Ala Ser Lys Asn Lys Glu Lys Ala Leu
321 1 5
325 (2) INFORMATION FOR SEQ ID NO: 17:
327 (i) SEQUENCE CHARACTERISTICS:
328 (A) LENGTH: 9 amino acids
329 (B) TYPE: amino acid
330 (C) STRANDEDNESS:
331 (D) TOPOLOGY: linear
333 (ii) MOLECULE TYPE: peptide
335 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 17:
337 Lys Asn Lys Glu Lys Ala Leu Ile Ile
338 1 5
342 (2) INFORMATION FOR SEQ ID NO: 18:
344 (i) SEQUENCE CHARACTERISTICS:
345 (A) LENGTH: 9 amino acids
346 (B) TYPE: amino acid
347 (C) STRANDEDNESS:
348 (D) TOPOLOGY: linear
350 (ii) MOLECULE TYPE: peptide
352 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 18:
354 Met Pro Asn Asp Pro Asn Arg Asn Val
355 1 5
359 (2) INFORMATION FOR SEQ ID NO: 19:
361 (i) SEQUENCE CHARACTERISTICS:
362 (A) LENGTH: 9 amino acids
363 (B) TYPE: amino acid
364 (C) STRANDEDNESS:
365 (D) TOPOLOGY: linear
367 (ii) MOLECULE TYPE: peptide
369 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 19:
371 Met Pro Asn Tyr Pro Asn Arg Asn Val
372 1 5
376 (2) INFORMATION FOR SEQ ID NO: 20:
378 (i) SEQUENCE CHARACTERISTICS:
379 (A) LENGTH: 9 amino acids
380 (B) TYPE: amino acid
381 (C) STRANDEDNESS:
382 (D) TOPOLOGY: linear
384 (ii) MOLECULE TYPE: peptide
386 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 20:
388 Met Pro Asn Asn Pro Asn Arg Asn Val
389 1 5
393 (2) INFORMATION FOR SEQ ID NO: 21:
395 (i) SEQUENCE CHARACTERISTICS:

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/042,202

DATE: 01/27/2002

TIME: 15:24:13

Input Set : A:\1-11-02. HILL sequence listing.txt
Output Set: N:\CRF3\01272002\J042202.raw

L:16 M:220 C: Keyword misspelled or invalid format, [(v) COMPUTER READABLE FORM:]
L:23 M:220 C: Keyword misspelled or invalid format, [(vii) PRIOR APPLICATION DATA:]
L:28 M:220 C: Keyword misspelled or invalid format, [(vii) PRIOR APPLICATION DATA:]
L:32 M:220 C: Keyword misspelled or invalid format, [(vii) PRIOR APPLICATION DATA:]
L:36 M:220 C: Keyword misspelled or invalid format, [(iv) CORRESPONDENCE ADDRESS:]
L:0 M:249 C: Inserted Mandatory Field, [(vi) CURRENT APPLICATION DATA:]
L:0 M:249 C: Inserted Mandatory Field, [(A) APPLICATION NUMBER:]
L:0 M:249 C: Inserted Mandatory Field, [(B) FILING DATE:]